certificate ID
1LG85

LaCore Nutraceuticals
PMB Focus

7USC1639 Certificate of Analysis

Lot# 21C0158011

issue date 11/11/21 1:24 PM

12185

total cannabinoids per
11.4mg mL

total THC‡ ND
total CBD‡ 10.8mg

This Product Has Been Tested and Complies with 7USC1639o(1)

Stillwater Laboratories

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample received 11/9/2021 12:34:17 PM in a client-labeled bottle, by commercial courier per Method 7.3.1.1 and as described in the Montana METRC Lab User Guide. Labeled Lot

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency MSP-7.5.1.4

per	mL	LOD | LOQ | error
total cannabinoids	**11.4mg**	**0.08 | 0.25 | ±0.44mg**
total THC‡	**ND**	**0.08 | 0.25 | ±0.25mg**
total THC (THC+THCa)	**ND**	**0.08 | 0.25 | ±0.25mg**
total CBD‡	10.8mg	0.08 | 0.25 | ±0.43mg
total CBD (CBD+CBDa)	10.8mg	0.08 | 0.25 | ±0.43mg
tetrahydrocannabolic acid (THCa)	ND	0.08 | 0.25 | ±0.25mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.06 | 0.24 | ±0.24mg
Δ8-tetrahydrocannabinol (Δ8 THC)*	ND	0.11 | 0.32 | ±0.32mg
tetrahydrocannabivarin (THCv)	ND	0.09 | 0.27 | ±0.27mg
cannabidiolic acid (CBDa)	ND	0.07 | 0.22 | ±0.22mg
cannabidiol (CBD)	10.8mg	0.08 | 0.25 | ±0.44mg
cannabidivarin (CBDv)	ND	0.06 | 0.25 | ±0.25mg
cannabigerolic acid (CBGa)	ND	0.07 | 0.22 | ±0.22mg
cannabigerol (CBG)	0.7mg	0.02 | 0.07 | ±0.08mg
cannabinol (CBN)	ND	0.05 | 0.14 | ±0.14mg
cannabichromene (CBC)	ND	0.08 | 0.25 | ±0.25mg

Terpenes MSP-7.5.1.6

		LOD | LOQ | error
total terpenes	**1.163%**	**0.0007 | 0.0021 | ±0.0265%**
linalool	0.117%	<0.0010 | 0.0010 | ±0.0034%
β-myrcene	0.047%	0.0007 | 0.0022 | ±0.0032%
D-limonene	0.332%	<0.0010 | 0.0013 | ±0.0083%
α-pinene	0.001%	<0.0010 | 0.0009 | ±0.0009%
β-pinene	ND	0.0006 | 0.0018 | ±0.0018%
ocimene	ND	0.0013 | 0.0038 | ±0.0038%
terpinolene	0.036%	0.0009 | 0.0027 | ±0.0034%
α-humulene	0.061%	0.0006 | 0.0018 | ±0.0031%
β-caryophyllene	0.336%	0.0017 | 0.0051 | ±0.0121%
α-bisabolol	ND	0.0013 | 0.0040 | ±0.0040%
camphene	ND	0.0008 | 0.0023 | ±0.0023%
Δ3-carene	ND	0.0033 | 0.0100 | ±0.0100%
caryophyllene oxide	<LOQ	0.0022 | 0.0065 | ±0.0066%
para-cymene	ND	0.0126 | 0.0379 | ±0.0378%
eucalyptol	ND	0.0018 | 0.0053 | ±0.0053%
geraniol	0.228%	0.0053 | 0.0158 | ±0.0206%
guaiol	ND	0.0017 | 0.0051 | ±0.0051%
isopulegol	ND	0.0017 | 0.0050 | ±0.0050%
cis-nerolidol	ND	0.0028 | 0.0085 | ±0.0085%
trans-nerolidol	ND	0.0014 | 0.0042 | ±0.0042%
α-terpenine	ND	0.0009 | 0.0026 | ±0.0026%

Pass / Fail Criteria

Microbial (Plating) MSP-7.5.1.10
FAIL: no failures
PASS: E.coli, Salmonella sp., molds

Mycotoxins MSP-7.5.1.8
FAIL: no failures
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1, Aflatoxin B2, Aflatoxin G1,

Moisture MSP-7.5.1.3
not required / not requested

Metals MSP-7.5.1.7
FAIL: no failures
PASS: Arsenic, Cadmium, Lead, Mercury

Pesticides MSP-7.5.1.8
FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

Solvents MSP-7.5.1.7
FAIL: no failures
PASS: Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes

Analysis Location L-00001
Certified by:

PFC ACCREDITED

https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-B71A-419DCF43B0D7

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These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calculated as: [cannabinoid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. •• Decarboxyted cannabinoid concentration is calculated $XXX_{total} = 0.877 \times XXXa + XXX$ ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_b$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) $\pm t_{CL90} \times s_g$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable, ‡ = decarbed, * = analyte is off-scope.

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LaCore Nutraceuticals

PMB Focus

Lot# 21C0158011

order 12185
rec'd date 11/9/2021 12:34:17 PM
12185 issue date 11/11/2021 1:24 PM
order

ANALYTICAL DATA

Report Version: 1
Analysis Location: L-00001

Stillwater Laboratories

Methods and Instruments

MSP-7.3.1.1	BAL-05	11/9/2021		MSP-7.5.1.7	QP2020/HS20	11/10/2021	L-00001
MSP-7.5.1.2	YSC HD801m12	11/10/2021		MSP-7.5.1.8	LCMS8060	11/10/2021	
MSP-7.5.1.3	6MOCk3u	11/10/2021		MSP-7.5.1.8	LCMS8060	11/10/2021	
MSP-7.5.1.4	LC-2030C	11/10/2021	L-00001	MSP-7.5.1.10A	Hardy Diag	11/10/2021	
MSP-7.5.1.6	QP2020/HS20	11/10/2021	L-00001	MSP-7.5.1.11	ICPMS2030	11/10/2021	

Mycotoxins MSP-7.5.1.8

	result	limit	LOD | LOQ | error
Ochratoxin A	ND	20 ppb	0.3 | 0.9 | ±0.9 ppb
Aflatoxin B1B2G1G2	ND	20 ppb	0.3 | 0.9 | ±0.9 ppb

Microbial (Plating) MSP-7.5.1.10

	result	limit	LOD | LOQ | error
E.coli	ND	0CFU	0.0 | 0.1 | ±0.1CFU
Salmonella sp	ND	0CFU	0.0 | 0.1 | ±0.1CFU
molds	ND	10000CFU	1.8 | 5.2 | ±5.2CFU

Solvents MSP-7.5.1.7

	result	limit	LOD | LOQ | error
Acetone	ND	5000 ppm	0.5 | 1.8 | ±1.8 ppm
Acetonitrile	ND	410 ppm	0.5 | 1.4 | ±1.4 ppm
Benzene	ND	0 ppm	0.0 | 0.1 | ±0.1 ppm
Butane	ND	5000 ppm	1.1 | 3.3 | ±3.3 ppm
Chloroform	ND	0 ppm	0.1 | 0.2 | ±0.2 ppm
Cyclohexane	ND	0 ppm	0.4 | 1.3 | ±1.3 ppm
Ethanol	3652 ppm	10000 ppm	0.6 | 1.7 | ±75.6 ppm
Heptane	ND	5000 ppm	0.3 | 1.0 | ±1.0 ppm
Hexane	ND	290 ppm	0.4 | 1.2 | ±1.2 ppm
Isopropyl alcohol	ND	5000 ppm	0.5 | 1.5 | ±1.5 ppm
Methanol	ND	3000 ppm	0.4 | 1.3 | ±1.3 ppm
Pentane	ND	5000 ppm	0.1 | 0.4 | ±0.4 ppm
Propane	ND	5000 ppm	0.4 | 1.3 | ±1.3 ppm
Toluene	ND	890 ppm	0.2 | 0.7 | ±0.7 ppm
Xylenes	ND	2170 ppm	0.3 | 0.8 | ±0.8 ppm

Metals MSP-7.5.1.7

	result	limit	LOD | LOQ | error
Arsenic	ND	1500 ppb	7.1 | 21.3 | ±21.3 ppb
Cadmium	ND	500 ppb	7.6 | 22.9 | ±22.9 ppb
Lead	ND	500 ppb	11.9 | 35.7 | ±35.7 ppb
Mercury	ND	300 ppb	6.0 | 18.0 | ±18.0 ppb

Pesticides MSP-7.5.1.8

	result	limit	LOD | LOQ | error	result
Abamectin	ND	0.30 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Acephate	ND	5.00 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.004 | 0.013 | ±0.013 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.003 | 0.010 | ±0.010 ppm	PASS
Aldicarb	ND	0.00 ppm	0.001 | 0.004 | ±0.004 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.001 | 0.004 | ±0.004 ppm	PASS
Bifenazate	ND	5.00 ppm	0.001 | 0.003 | ±0.003 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Boscalid	ND	10.00 ppm	0.014 | 0.042 | ±0.042 ppm	PASS
Carbaryl	ND	0.50 ppm	0.005 | 0.017 | ±0.017 ppm	PASS
Carbofuran	ND	0.00 ppm	0.001 | 0.003 | ±0.003 ppm	PASS
Chlorantraniliprole	ND	40.00 ppm	0.013 | 0.040 | ±0.040 ppm	PASS
Chlorfenapyr	NT	0.00 ppm		NA
Chlorpyrifos	ND	0.00 ppm	0.028 | 0.083 | ±0.083 ppm	PASS
Clofentezine	ND	0.50 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Coumaphos	ND	0.00 ppm	0.004 | 0.011 | ±0.011 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.004 | 0.011 | ±0.011 ppm	PASS
Daminozide	ND	0.00 ppm	0.019 | 0.057 | ±0.057 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.010 | 0.029 | ±0.029 ppm	PASS
Diazinon	ND	0.20 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Dimethoate	ND	0.00 ppm	0.001 | 0.004 | ±0.004 ppm	PASS
Etoxazole	ND	1.50 ppm	0.003 | 0.008 | ±0.008 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.002 | 0.007 | ±0.007 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Fipronil	ND	0.00 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Flonicamid	ND	2.00 ppm	0.067 | 0.201 | ±0.201 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.004 | 0.013 | ±0.013 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Imazalil	ND	0.00 ppm	0.004 | 0.013 | ±0.013 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Malathion	ND	5.00 ppm	0.003 | 0.010 | ±0.010 ppm	PASS
Metalaxyl	ND	15.00 ppm	0.005 | 0.015 | ±0.015 ppm	PASS
Methiocarb	ND	0.00 ppm	0.002 | 0.007 | ±0.007 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001 | 0.001 | ±0.001 ppm	PASS
Methyl parathion	NT	0.00 ppm		NA
Mevinphos	ND	0.00 ppm	0.004 | 0.011 | ±0.011 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Naled	ND	0.50 ppm	0.004 | 0.011 | ±0.011 ppm	PASS
Oxamyl	ND	0.20 ppm	0.002 | 0.005 | ±0.005 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.002 | 0.006 | ±0.006 ppm	PASS
Permethrin	ND	20.00 ppm	0.007 | 0.020 | ±0.020 ppm	PASS
Phosmet	ND	0.20 ppm	0.002 | 0.006 | ±0.006 ppm	PASS
Piperonyl butoxide	ND	8.00 ppm	0.007 | 0.021 | ±0.021 ppm	PASS
Prallethrin	ND	0.40 ppm	0.003 | 0.008 | ±0.008 ppm	PASS
Propiconazole	ND	20.00 ppm	0.003 | 0.008 | ±0.008 ppm	PASS
Propoxur	ND	0.00 ppm	0.004 | 0.012 | ±0.012 ppm	PASS
Pyrethrin	ND	1.00 ppm	0.002 | 0.005 | ±0.005 ppm	PASS
Pyridaben	ND	3.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Spinetoram	ND	3.00 ppm	0.002 | 0.007 | ±0.007 ppm	PASS
Spinosad	ND	3.00 ppm	0.004 | 0.013 | ±0.013 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.002 | 0.006 | ±0.006 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.002 | 0.005 | ±0.005 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.003 | 0.010 | ±0.010 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.001 | 0.002 | ±0.002 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.002 | 0.006 | ±0.006 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.002 | 0.005 | ±0.005 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

These results are only valid for the samples tested. • Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_b$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL95} x s_g. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable.

Certified by:

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